This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1.   (Currently Amended) A memory having stored therein a structure readable by a host adapter comprising:

a scatter/gather list comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations in said memory and said set of contiguous memory locations can be of any size, wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

a plurality of data elements, wherein each data element comprises:

an end-of-list flag; and

an end-of-section flag,

wherein said plurality of data elements includes (j) data elements where j is an integer;

said end of list flag has a first state in a first (j-1) of said data elements;

said end of list flag in data element j has said first state if said data element j is not a last data element in said scatter/gather list, and has a second state different from said first state if said data element j is said last data element in said scatter/gather list; and

each data element in said plurality of data elements includes:

a segment address;

wherein said segment address is associated with a location in a first memory having information stored therein and said information is to be transferred from said first memory to a second memory.

2.   (Currently Amended)   The scatter/gather list of Claim 1 wherein said end-of-list flag has ~~a same value~~ said first state in said each data element.

3.   (Currently Amended)   The scatter/gather list of Claim 1 wherein said end-of-section flag has a same ~~value~~ state in said each data element.

4.   (Currently Amended)   The scatter/gather list of Claim 1 wherein said end-of-section flag has a first ~~value~~ state in a last data element in said plurality of data elements, and a second ~~value~~ state in all other data elements in said plurality of data elements.

5.   (Currently Amended)   The scatter/gather list of Claim 4 wherein said end-of-list flag has ~~a same value~~ said first state in said each data element.

6.   (Currently Amended)   The scatter/gather list of Claim 4 wherein said end-of-list flag has ~~a same value~~ said second state in said last data element in said plurality of data elements, and ~~a second value~~ said first state in all other data elements in said plurality of data elements.

7.   (Original)   The scatter/gather list of Claim 1 wherein said end-of-list flag has a size of one bit.

8. (Original) The scatter/gather list of Claim 1 wherein said end-of-section flag has a size of one bit.

9. (Currently Amended) The scatter/gather list of Claim 1 wherein said each data element further comprises:
an address field <u>including said segment address</u>.

10. (Original) The scatter/gather list of Claim 9 wherein said end-of-list flag, and said end-of-section flag are included within said address field.

11. (Original) The scatter/gather list of Claim 1 wherein said each data element further comprises:
a length field.

12. (Original) The scatter/gather list of Claim 9 wherein said each data element further comprises:
a length field.

13. (Original) The scatter/gather list of Claim 1 said at least one scatter/gather list section further comprises:
a link element comprising:
an end-of-list flag; and
an end-of-section flag.

14. (Currently Amended) A <u>memory having stored therein a structure, readable by a host adapter,</u> comprising:
a scatter gather list comprising a plurality of scatter/gather list sections <u>wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further</u> ~~stored in a memory~~ wherein at least one scatter/gather list section

GUNNISON, McKAY &
HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

in said plurality of scatter/gather list sections comprises:

a plurality of data elements, wherein each data element comprises:

an end-of-list flag <u>wherein said end-of-list flag has a first state</u>;

an end-of-section flag;

an address field having a data segment address; and

a length field having a data segment length <u>wherein said data segment address and said data segment length are used in determining an area in a first memory having information stored therein and said information is to be transferred from said first memory to a second memory</u>; and

a link element comprising:

an end-of-list flag;

an end-of-section flag; and

an address field having a next list section address <u>to another scatter/gather list section in said plurality of scatter/gather list sections</u>.

15.   (Currently Amended)   A <u>memory having stored therein</u> a structure <u>readable by a host adapter</u> comprising:

a scatter/gather list comprising a plurality of scatter/gather list sections <u>wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further</u> ~~stored in a memory~~ wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

a plurality of data elements, wherein each data element consists of:

an address field comprising:

a data segment address;

an end-of-list flag; and

an end-of-section flag

wherein said plurality of data elements includes j data elements where j is an integer;

said end of list flag has a first state in a first (j-1) of said data elements;

said end of list flag in data element j has said first state if said data element j is not a last data element in said scatter/gather list, and has a second state different from said first state if said data element j is said last data element in said scatter/gather list; and

said data segment address is associated with a location in a first memory having information stored therein and said information is to be transferred from said first memory to a second memory; and

a link element consisting of:

an address field comprising:

a next list section address;

an end-of-list flag; and

an end-of-section flag.

16. (Currently Amended) A computer system ~~structure~~ comprising:

a memory comprising a scatter/gather list, readable by a host adapter, comprising a plurality of scatter/gather list sections wherein each of said sections is stored in a different set of contiguous memory locations and said set of contiguous memory locations can be of any size, and further wherein at least one scatter/gather list section in said plurality of scatter/gather list sections comprises:

a plurality of data elements wherein each data element comprises:

an end-of-list flag; and

an end-of-section flag,

wherein said plurality of data elements includes (j) data elements where j is an integer;

said end of list flag has a first state in a first (j-1) of said data elements;

said end of list flag in data element j has said first state if said data element j is not a last data element in said scatter/gather list, and has a second state different from said first state if said data element j is said last data element in said scatter/gather list; and

each data element in said plurality of data elements includes:

a segment address;

wherein said segment address is associated with a location in a first memory having information stored therein and said information

<u>is to be transferred from said first</u>

<u>memory to a second memory</u>.

17.   (Currently Amended)   The <u>computer system</u> ~~structure~~
of Claim 16 wherein said at least one scatter/gather list
section further comprises:

a link element comprising:

an end-of-list flag; and

an end-of-section flag.

18.   (Currently Amended)   A <u>computer system</u> ~~structure~~
comprising:

a memory comprising a scatter/gather list, <u>readable</u>
<u>by a host adapter,</u> comprising a plurality of
scatter/gather list sections <u>wherein each of said</u>
<u>sections is stored in a different set of contiguous</u>
<u>memory locations and said set of contiguous memory</u>
<u>locations can be of any size, and further </u>wherein at
least one scatter/gather list section in said plurality
of scatter/gather list sections comprises:

a plurality of data elements, wherein each
data element comprises:

an end-of-list flag;

an end-of-section flag;

an address field having a data segment
address; and

a length field having a data segment
length <u>wherein said data segment address and</u>
<u>said data segment length are used in</u>
<u>determining an area in a first memory having</u>
<u>information stored therein and said</u>
<u>information is to be transferred from said</u>
<u>first memory to a second memory by said host</u>
<u>adapter</u>; and

    a link element comprising:

      an end-of-list flag;

      an end-of-section flag; and

      an address field having a next list
section address.

19. (Currently Amended) A method comprising:

  storing a scatter/gather list, readable by a host
adapter, as a plurality of sections in a memory, wherein
each of said sections is stored in a different set of
contiguous memory locations and said set of contiguous
memory locations can be of any size, and further wherein
each section includes a plurality of elements wherein
each element comprises:

    an address wherein said address is associated
    with a location in a first memory having
    information stored therein and said information is
    to be transferred from said first memory to a
    second memory;

    an end-of-list flag; and

    an end-of-section flag;

  setting an end-of-list flag in a last element of a
last section in said plurality of sections; and

  setting an end-of-section flag in at least one of
said plurality of sections other than said last section.

20. (Previously Presented) The method of Claim 19
wherein said setting an end-of-section flag is performed on a
last element in said at least one of said plurality of
sections other than said last section.

21. (Original) The method of Claim 19 wherein said
setting an end-of-section flag is performed on a link element

in said at least one of said plurality of sections other than said last section.